\*120\* CNC Bend 2

CNC Alpha 160 Bender.

BENDING MACHINE - CROSSTUBES

0.00 Memo

Bend tube as per Dwg D412-664-243 using CNC bender program 412-aft and

W/0: 8	0134	· · ·	WORK ORDER CHANGES	RCHANGES					
DATE	STEP		PROCEDURE CHANGE	By Date		Date Qty		Approval QC Inspector	
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7101110-				· · · · · · · · · · · · · · · · · · ·
Part No: D412-664-203 F	PAR #: Fault Category:	NCF	R: Yes (No DQA:	Date:
		*	10	
Pacolution:	Dienocition:	: (OA.	N/C Closed:	Date: 12.03.07

NCR:		<b>W</b> (	9,	96					
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section B  Action Description Chief Eng	Verification Section C	Approval Chief Eng	Approval QC Inspecto		
12.1223	120	TOL. Process	RANS OSIOP	Acceptable	n/4	S:	nois Bon	7/0/25	
								1. Mr.	
		TA.							

Work Ord February-10-12				*80134*										
Item ID: Revision ID: Item Name:	D412-664-20 Crosstube Aft				Accept		*N900040		)*	Setup Sta	17	IS1* IS2*		
Start Date: Required Date: Reference:	10/02/2012 24/02/2012	Start Qty: 1.00 Req'd Qty: 1.00		*1* *1*		Cust Item Customer								
Approvals:	Process Pla	n:	Date:		Tooling:	Ι	Date:			Run Sta	!/	IR1*		
	QC:		Date:		SPC (Y/N):	<u> </u>	Date:	<del></del>		Ste	<sup>op</sup> *⋀	IR2*		
Sequence ID/ Work Center II	)	Operation Description QC15- Crosstube Dimen	sional Check		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp		
*130* QC Quality Control		Memo		, ce	0.00	P10	2.22	3				······································		
<sup>140</sup> <b>*1△</b> ∩*		Crosstubes		÷	0.00	$\sim$		÷						
Crosstubes Crosstubes		<b>Memo</b> 1-Drill pilot DT8551 and	holes in tube drill table DT	as per Dwg D 8577 using #	0.00 0412-664-243 using drill 9 holes as per QSI 10 to i	Jig DT8550 & nstall towers.		MC			12/2	/23		
		DT8550 & I		dimensions	r Dwg D412-664-243usi between holes, both side				Tt.					
				,	Repair damage within I	imits as per	, ,		<u>M</u>		12:2	-24		

DATE   STEP   PROCEDURE CHANGE   By   Date   Qty   C	Approval Chief Eng / Prod Mgr  Approval QC Inspector
DATE   STEP   PROCEDURE CHANGE   By   Date   Qty   C	Chief Eng /
Port No. DAD # Foult Cotogons NCD: Voc No. DOA:	Date
Part No:         PAR #:         Fault Category:         NCR: Yes No DQA:           Resolution:         Disposition:         QA: N/C Closed:	
NCR: WORK ORDER NON-CONFORMANCE (NCR)	<u> </u>
DATE STED Description of NC Corrective Action Section B Verification	Approval Approval
	Chief Eng QC Inspector
	*
	·

Work Order ID 80134 \*80134\* Page 3 February-10-12 11:34:25 AM D412-664-203 Accept Item ID: \*N900040100\* Setup Start **Revision ID:** Item Name: Crosstube Aft Start Qty: 1.00 **Start Date:** 10/02/2012 **Cust Item ID: Required Date: 24/02/2012 Req'd Qty:** 1.00 **Customer:** Reference: Run Process Plan: **Tooling:** Approvals: Date: Date: Stop QC: SPC (Y/N): Date: Date: Sequence ID/ Operation Set Up/ Tool # Plan Reject Tool ID Accept Reject Insp. Qty **Work Center ID Run Hours** Qty Description Code Number Stamp Crosstubes Chemical Conversion 0.00 150 \*150\* HandFXtube 0.00 Memo Hand Finishing Crosstubes 160 QC3- Inspect Part Finish 0.00 m/ 12 or 24(1 \*160\* 0.00 Memo Quality Control 12 02 24 0 170 QC5- Inspect part completeness to step on W/O 0.00 \*170\* 0.00

Memo

Quality Control

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W/O:			WORK ORDER CHANGES											
DATE	STEP	PRO	CEDURE CH	IANGE	Ву	Date Qt	y Approval Chief Eng / Prod Mgr	Approval QC Inspector						
··														
Part No	:	PAR #:	Fault Cat	degory:	NCR: Yes	No DQA:	Date: _							
	R	esolution:	Dispositi	ion:	QA: N/C Clo	sed:	Date: _							
NCR:			VORK ORI	DER NON-CONFORMAN	ICE (NCR	)								
DATE	STEP	Description of NC		Corrective Action Section		Verificatio	n Approval	Approval						
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector						
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Work Ord February-10-12					Page 4						
Item ID: Revision ID: Item Name:	D412-664-20 Crosstube Aft			Accept	*N900	04010	<b>N</b> *	Setup Star	1/1	S1* S2*	
Start Date: Required Date: Reference:	10/02/2012 : 24/02/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item ID: Customer:						
Approvals:	Process Pla	n:	Date:	Tooling: SPC (Y/N):		Date:		Run Star Stop	1/1	R1* R2*	
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool # Plan Code	Accept Qty	t Reject Qty	Reject Number	Insp. Stamp	
180 <b>*180*</b> Outsource2		Outsource process - NDT	per QS1038 4.1	0.00					012-0	12-27	
Outsource process -	NDT	Liquid Pener Issue P/Q.	rant Inspection as per QS LPI as per AS ch copy of NDT results to	ΓM 1417							
190				0.00					7		
*100* Packaging		Packaging Memo		0.00				[E/s	1/28	2(1)	
Packaging			ansit damage of NDT results attached	to work order.				- /	f	% →	
200		QC5- Inspect part comple	eteness to step on W/O	0.00							

Memo

Inspect for damage & ensure results are as per Dwg D412-664-203

Quality Control

W/O:		හිවා34 WORK ORDER CHANGES										
DATE	STEP		PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				

Part No: <u>Dyi2-664-203</u>	PAR #:	Fault Category: Land, Gear (co	NCR: Yes No	DQA: TWE	_Date: 12/03/16
A Resolution:	le work	Disposition: Le work	<sup>ی</sup> QA: N/C Closed	N/ N	Date: 12.3.7

NCR:	\ <i>W</i> )	WORK ORDER NON-CONFORMANCE (NCR)												
		Description of NC		Corrective Action Section B	Verification	Approval	Approval QC Inspector							
DATE	STEP	Section A			Sign & Date	Section C		Chief Eng						
		industations Found on x tube	A	Buffout marking Bund at			B COJUJ							
12.2.28	190	indutations Found on x-tube Durni not inspetie. R.C. Process.	agen	Re Alvain As Per as=005	Ag. 12-2-28	12 lal 28	07/47	ızlozlaş						
				Re not injust tom. (sec legals).		( ) ( ) ( )		LOCIZE						
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Work Order ID 80134 \*80134\* Page 5 February-10-12 11:34:25 AM D412-664-203 Accept Item ID: \*N900040100\* Setup Start **Revision ID:** Crosstube Aft Item Name: 10/02/2012 Start Qty: 1.00 **Start Date:** Cust Item ID: **Req'd Qty:** 1.00 **Required Date: 24/02/2012 Customer:** Reference: Run **Process Plan: Tooling:** Approvals: Date: Date: Stop SPC (Y/N): QC: Date: Date: Sequence ID/ Operation Tool ID Tool # Plan Reject Set Up/ Accept Reject Insp. **Work Center ID** Description Qty Code Qty Number Stamp **Run Hours** 210 0.00 SprayPaint \*210\* 12 - 3-1 SprayPaint 0.00 Memo Spray Painting \*\*\*Mask underside of crosstube as shown\*\*\* 1-Prime inside and outside crosstube as per QSI 005 4.2 2-Paint outside crosstube with White Imron as per DEO D412-664-243 and QSI 005 4.2 PRIME: Start Time: 9:15 12-2-29 Fininsh Time: 10:30 PAINT: Start Time: **8:30** AS 12-3-1 Finish Time: 9;30

220

QC14- Inspect Spray Paint

0.00

\*ククハ\*

Memo

0.00

Quality Control

Then, Wrap in plastic bag to protect from scratches

Q \$ 1203.02

W/O:		14	WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CH	HANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Port No.		DAD #•	Foult Co	togonu		NCD	. Voc. N	lo DO		Data				
Part NO							NCR: Yes No DQA: Date: QA: N/C Closed: Date:							
	ne:									Date				
NCR:		· · · · · · · · · · · · · · · · · · ·	WORK OR	DER	NON-CONFORM	ANCE	(NCH)	i 						
DATE	STEP	Description of NC	Initial	ective Action Sec Action Description	tion B	Sign &	Verific		Approval	Approval QC Inspector				
		Section A	Chief Eng		Chief Eng		Date	Section	on C	Chief Eng	QC Inspector			
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									40					
		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	,								

Work Orde February-10-12					*80134*												
Revision ID: Item Name: Start Date:	D412-664-2 Crosstube Aft 10/02/2012	t Start Q	Start Qty: 1.00 Req'd Qty: 1.00		*1*	Accept	*N90		710	<b>N</b> *	Setup S	Start Stop	*N *N	S1* S2*			
Required Date: Reference:	24/02/2012	24/02/2012 <b>Req u Qiy:</b> 1.00			*1*		Custom										
Approvals:	4 M4 - 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Date:			Date:				Run Star Stop		INK					
Sequence ID/ Work Center ID 230 *230* Crosstubes Crosstubes	)	Operation Descript  Crosstubes	Memo Assemble as per 1- Install chaffing. A/R Proseal 8 2- Lightly scuff with 41058 was 3-Install support D12-664-243 at 18	ng shield as  Batch: EXP: f the bonded sh 'n' wipe  rt with Scote	per DEO D41 120073 09/12 I area using a ch-Weld DP4 attion jig DT9 60 Batch:	320 grit sand paper an 60 and install clamps a	d clean the area	Tool#	Plan Code	Accept Qty	Rejec Qty	1	Reject Number	Insp. Stamp			
240 * <b>24 *24 * QC</b> Quality Control		QC5- Inspe	ct part complete	ness to step	on W/O	0.00	1315			(FL	)						

W/O:			MGES								
DATE	STEP	PR	OCEDURE CHA	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector		
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date: _			
		esolution:	*			QA: N/C Closed: Date:					
NCR:			WORK ORD	ER NON-CONFORI	MANCE (NC	R)					
DATE	STEP	Description of NC	t-itial	<del> </del>	Section B		cation	Approval	Approval		
		Section A	Initial Chief Eng	Action Descriptio Chief Eng	Date		tion C	Chief Eng	QC Inspector		
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	Vork Order ID 80134  ebruary-10-12 11:34:25 AM  DA12-664-203			*80134*								Page
Item ID: D Revision ID:	0412-664-20	3		Accept	*N900	<b>040</b>	100	ገ*	Setup	Start	*N	S1*
Item Name: C	Prosstube Aft									Stop	*N	S2*
Required Date: 24	0/02/2012 4/02/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:						
Reference: Approvals:	Process Plar	ı:	Date:	Tooling:	Dε	ite:	<del></del>		Run	Start	*N	R1*
	QC:		Date:	<b>SPC (Y/N):</b>	Da	nte:	<del></del> .			Stop	*N	R2*
Sequence ID/ Work Center ID		Operation Description	<del></del>	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Rej Qty		Reject Number	Insp. Stamp
250		Pick Kit		0.00						_	/	
*250* Packaging Packaging		Memo		0.00			11	\$	10-	-3	-60	•
260		QC4- 100% Inspect kits	for completeness	0.00	. /							
* <b>260</b> * QC Quality Control		Memo		0.00 Sinle	1/04			(		<del>_</del>		- <del></del>

270

\*270\*

Packaging

Packaging

Packaging

0.00

0.00 Memo

Identify and pack for shipping as per PPP D412-664-203

\*\*\*\*\*Ensure tube is not packaged if curing time is less than 12 hrs, see step 27

for application time & date \*\*\*\*\*

Time & date of packaging:

Location:

1443/6

Dart Acrospace Ltd										•
W/O:	<b>'</b> O:		W	ORK ORDER CHANG	ES					
DATE	STEP	PR	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cat	egory:	_ NCF	R: Yes N	lo <b>DQ</b>	A:	Date:	
	R	esolution:	Dispositi	on:	_ QA:	N/C Clos	sed:		Date: _	
NCR:		·	WORK ORI	DER NON-CONFORMA	ANCE	(NCR)				
DATE	STEP	Description of NC	Corrective Action Section Initial Action Description			Sign &	Verific		Approval	Approval
		Section A	Chief Eng	Chief Eng				on C	Chief Eng	QC Inspector
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Work Ord February-10-12			*80134*							Page 8
Item ID: Revision ID: Item Name:	D412-664-20 Crosstube Aft			Accept	*N900	040	100	* Setup	etup Sta	111121
Start Date: Required Date: Reference:	10/02/2012 : 24/02/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item l Customer:	D:				14.17
Approvals:	Process Pla	n:	Date:	Tooling: SPC (Y/N):	· · · · · · · · · · · · · · · · · · ·	ate:		R	un Star Sto	"NR1"
Sequence ID/ Work Center II		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Insp. Number Stamp
*280 *280* QC		QC21- Final Inspection -	Work Order Release	0.00			-		12/3	3/7

Memo

Quality Control

12/3/7 (8) MK 12-03-07

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W/O:	-		W	ORK ORDER CHANG	ES					•
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Part No	art No: PAR #: Resolution:		Fault Cat	NCR: Yes No DQA: Date:						
	Resolution:									
NCR:		\	WORK ORE	ER NON-CONFORMA	ANCE (I	VCR)		·		
DATE	CTED	Description of NC	Corrective Action Section			Verific	ation	Approval	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		ign & Date	Section C		Chief Eng	QC Inspector
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Picklist Pri	nt
February-10-12	11:34:29 AM
Work Order ID:	80134
Parent Item:	D412-664-203
Parent Item Name	e: Crosstube Aft

\*80134\*

\*D412-664-203\*

**Start Date:** 10/02/2012

**Required Date: 24/02/2012** 

Page 1

Start Qty: 1.00 Required Qty: 1.00

Comments:

IPP Rev:E04.02.16Reformat; Added D3189-1K/DS

IPP Rev:F06-03-29Remove Coments on Pick ListJLMIPP Rev:G06.12.08per ECN 886ECIPP Rev:H07-04-30As per Rev DJLM

IPP Rev:I 08-06-12 add comment in seq. 21 DD verified by:EC IPP rev J 11.04.21 DEO D412-664-243-E-1 EC verified DD IPP REV:K

11.10.03 DEO D412-664-243-E-2 DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Status Issued
D412-664-203TRN		Manufactured	No	DO.	17/	110	Each	0.0000	1 (	$\left\langle \begin{array}{c} 1 \end{array} \right\rangle$	100	17/2/21
*D412-664 Crosstube Turning Detail	-203TR	2N*		B&0	128				** \		MO	12/2/2/
02896-1		Manufactured	No			230	Each	25.0000	1	1		
*D2896-1*									**		AS	12-3-2
				Location		Loc	<u>Qty</u>	Loc Code				
				LG053			25		_			
					71502) 74465		4			1	_	
03189-1		Manufactured	No		74403	230	21 Each	32.0000	2	2	orhowene A	
*D3189-1*									**		AS	12-3-2
· ·				Location		. Loc C	<u>Oty</u>	Loc Code				
				FG			4				_	
					36065		4		_			
				LG053			28			a		

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DATE	STEP	PRO	OCEDURE CHAI		Ву		Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No	•	PAR #:	Fault Categ	jory:	NCR: Ye	es N	o DQA	<b>\</b> :	Date:			
•		solution:	**		QA: N/C Closed: Date:							
NCR:			WORK ORDE	R NON-CONFORMA	NCE (N	CR)						
DATE	STEP	Description of NC		Corrective Action Section			Verific	ation	Approval	Approval		
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February-10-12 11:34:29 AM								· 	Page 2
Work Order ID: 80134		*8	0134*						
<b>Parent Item:</b> D412-664-203		*[	)412-664-2	202*					
Parent Item Name: Crosstube Aft		•	)—			St	art Date:	0/02/2012	Required Date: 24/02/2012
						S	tart Qty: 1	.00	Required Qty: 1.00
D3595-063-570	Manufactured	No		230	Each	120.0000	2	2	
*D3595-063-570*							**		H 12-3-2
			Location	Lo	e Oty	Loc Code			
			FG		8			-	_
			37971		1			-	_
	,		42243		7				_
			MAT052		112				_
			71534		35			#2	- 
14021020.20			76546		77				_
MS21920-28	Purchased	No		230	Each	51.0000	4	4	
*M\$21920-28* Clamp(per MIL-DTL-8783C)							**		AJ 12-3-2
			<b>Location</b>	Loc	: Qty	Loc Code			
			FG		5				_
			105884		5				_
			LG050		46				_
			116839		2				_
			118713		4				_
			119285		1				_
			119920 (120054)		9 30			4	-
MS21920-30	Purchased	No	(120034)	230	Each	86.0000	2	2	_
	ruichaseu	110		250	Daon		**	2	۸ ۸
*M\$21920-30* clamp(per MIL-DTL-8783C)							**************************************		Af 12-3-2
			<b>Location</b>	Loc	<u>Oty</u>	Loc Code			
			LG		50				-
			119529		50				-
			LG050		22				-
			117998		22			3	-
			LG051		14				
			111258		14				-
February-10-12 11:34:29 AM			Shop P	acket Print					Page 2

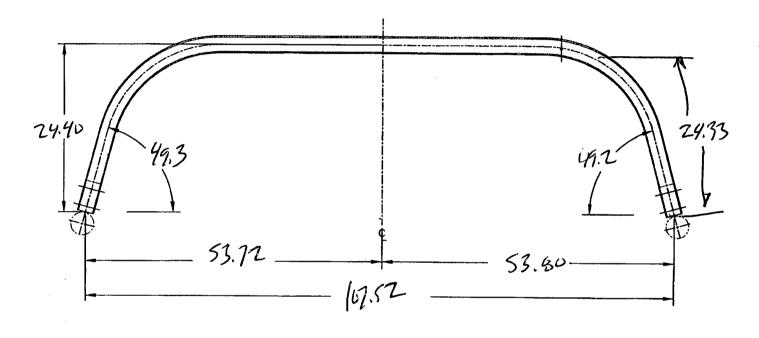
W/O:	•	WORK ORDER CHANGES												
DATE	STEP	PRO	OCEDURE CH		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
Part No	•	PAR #:	Fault Cate	egory:	_ NCR: Yes	No DQA:		_ Date: _						
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DATE	STEP	Description of NC	B. PAT . I	Corrective Action Section		Verifica		Approval	Approval					
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date			Chief Eng	QC Inspector					
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Picklist Print February-10-12 11:34:29 AM										Page 3
Work Order ID: 80134  Parent Item: D412-664-203  Parent Item Name: Crosstube Aft			0134* 0412-664-	203*		s	tart Date:	10/02/2012	Required Date:	24/02/2012
							Start Qty:		Required Qty:	
AN6-40A *AN6-40A*	Purchased	No		250	Each	124.0000	4 <b>**</b>	40/2	8833 S	PG
			<u>Location</u> ST342 119749 120187	<u>L</u>	124 24 100	Loc Code				
*AN6-41A* Bolt	Purchased	No		250	Each	95.0000	2 **	2		
			Location ST342 119749 120187 120423	. <u>L</u>	95 20 25 50	Loc Code				
*AN960JD616 NAS1149D0663. *AN960.ID616*	Purchased	No	·	250	Each	0.0000	18 **	m/19	075-18X	o do
MS21042L6 >*MS21042L6* Nut	Purchased	No		250	Each	1,154.000	6 <b>**</b>	\$ 12	-03-6.	
			Location ST300 117677 118384 118927 119075 120308	<u>L</u> .	1154 25 3 48 878 200	Loc Code				

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W/O:			V	ORK ORDER CHANG	ES					
DATE	STEP	PRO	OCEDURE CH	IANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Ca	tegory:	_ NCI	R: Yes I	No DQ	<b>A</b> :	Date: _	
	R	esolution:							Date: _	
NCR:		\	WORK OR	DER NON-CONFORMA	NCE	(NCR)				
DATE	STEP	Description of NC *	R *A* - 1	Corrective Action Section	on B	Cian 0	Verific		Approval	Approval
	· · · ·	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Section	on C	Chief Eng	QC Inspector
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DART AEROSPACE LTD	Work Order:	80134
Description: Crosstube High Aft (412)	Part Number:	D412-664-203
Inspection Dwg: D412-664-243 Rev: E		Page 1 of 1

Required Dimension	Min	Max
Height	24.24	24.50
1/2 Span	53.59	53.85
Angle	49	52
Total Span	107.18	107.70



	Comments	
E PASSES 30	CRUSHING.	6.8%
30	•	669
		(6)
QC15 Inspect	tion /	1
Date		12.02.23

Rev	Date	Change	Revised by	Approved
Α	07.02.06	New Issue	KJ/JM	<b>4.4</b>
В	07.05.08	Dimensions updated per Dwg rev. D	KJ/JLM	
С	10.02.02	Dwg Rev updated	KJ 🗫	1
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W/O:			WC	ORK ORDER CHANG	GES				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQA	\:	_ Date: _	
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NCR:		\	WORK ORD	ER NON-CONFORM	ANCE (NCR	)			. – —
DATE	0750	Description of NC			tion B	Verific	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		Chief Eng	QC Inspector
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item	Qty -243	Part Number	Description
1	х	D412-664-243	CROSSTUBE ASSEMBLY (412 HIGH AFT)
2	1	D6009-129	CROSSTUBE
3	2	D3595-063-570	RUBBER CUSHION
4	1	D2896-1	SUPPORT
5	2	D3189-1	CHAFING SHIELD
6	2	D2856-600-1009	ABRASION STRIP
7	4	MS21920-28	CLAMP
8	2	MS21920-30	CLAMP (OR MS21920-32)
9	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

#### **GENERAL NOTES:**

- 1) MATERIAL: MANUFACTURED FROM D6009-129
  - FINISHED LENGTH = 124.100±0.020 (BEFORE BENDING/TRIMMING)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D412-664-243" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: 47.0 lbs (PER IIN-D212-664)
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN CUTTER OFF PART, BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2896-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 13) INSTALL MS21920-30 CLAMPS (OR -32) WITH D3595-063-570 RUBBER CUSHIONS TO SECURE THE D2896-1, SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE SUPPORT.
- 14) INSTALL D2856-600-1009 ABRASION STRIPS WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.
- 15) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

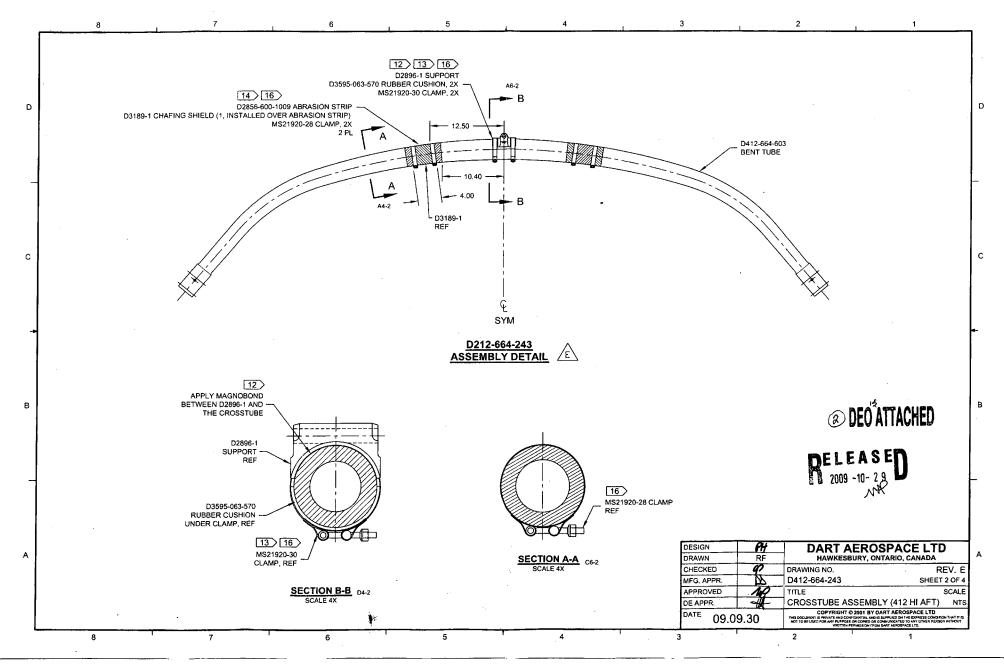
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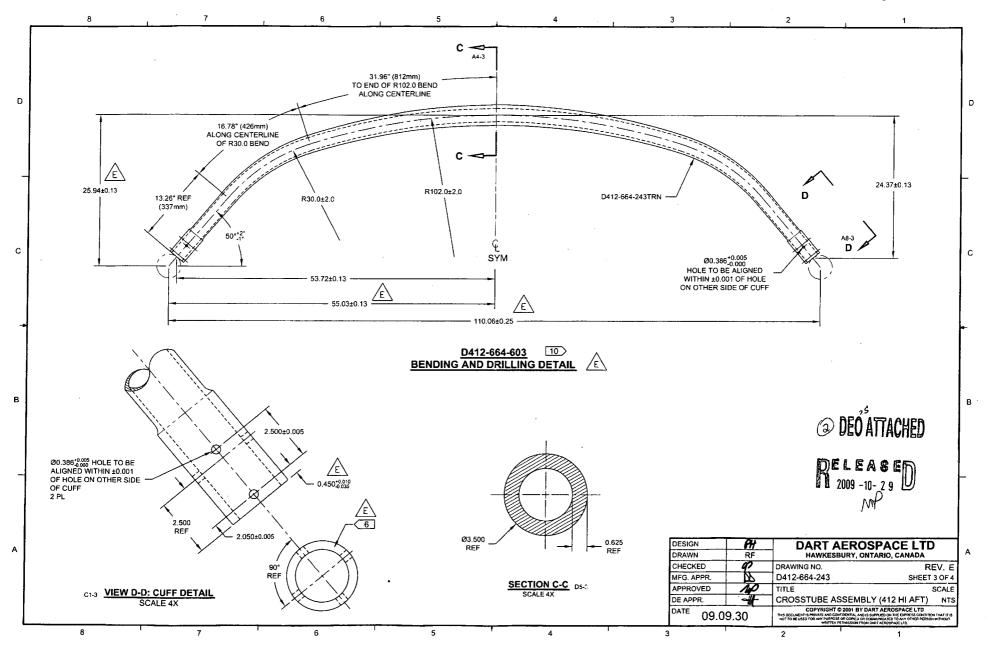
DESIGN	# DART AFROSP	ACF	ITD
REV.	DESCRIPTION	BY	DATE
Α_	NEW ISSUE	PH	01.10.17
В	ADD HOLES FOR COMPATABILITY WITH BHT/AA SKIDTUBES	РН	05.02.04
С	REMOVE D2856-600-1087, ADD D2732-058 & MAGNOBOND 6398, MS21920-32 WAS MS21920-30	мв	06.10.27
D	REMOVE D2732-058, CHANGE TO D3595-063-570	PH	07.03.09
E	REFORMAT/REVISE GENERAL NOTES; REORGANIZED VIEWS AND REFORMATTED DRAWING TO CURRENT STANDARDS; RELOCATED FLAG #6 PER PAR 08-046 (ZN A6-3); ADD TOLERANCE (ZN B6-3, C4-3, C8-3 & C5-3); MOVED TURNING DETAIL & UPDATED TOLERANCE TO SHEET 4.	, RF	09.09.30

DESIGN	_ m	□ DART AEROSPACE	: LTD
DRAWN	RF	HAWKESBURY, ONTARIO, CA	NADA
CHECKED	9	DRAWING NO.	REV. E
MFG. APPR.	77	D412-664-243	SHEET 1 OF 4
APPROVED	140	TITLE	SCALE
DE APPR.	-#	CROSSTUBE ASSEMBLY (412 H	AFT) NTS
DATE 09.0	9.30	COPYRIGHT © 2001 BY DART AEROSPATHUS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLED ON THE EST NOT TO BE USED FOR ANY PURPOSE ON COMPID OR COMMUNICATED TO ANY	RESS CONDITION THAT IT IS

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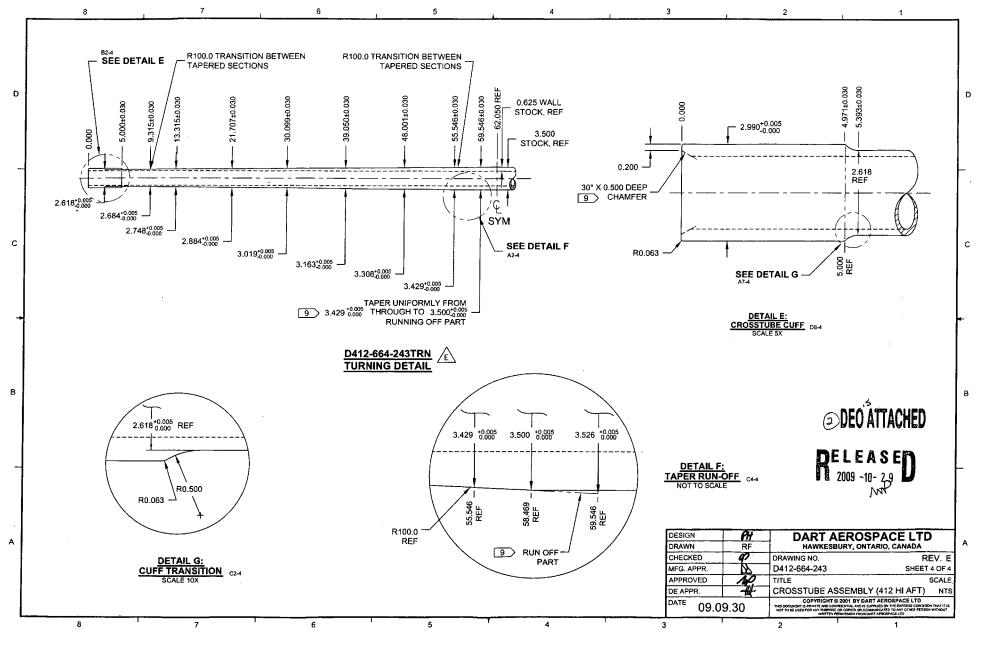


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Part No	:	PAR #:	Fault Cate	egory:	NCR: Y	es N	lo <b>DQ</b>	A:	Date: _	
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NOTE: Date & initial all entries

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DRAWING NO.	TITLE	REV. E	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D412-664-24	3   CROSSTUE	BE ASSEMBLY (412 HI AFT)	<b>ENGINEERING ORDER</b>	D412-664-243-E-1	SHEET 1 OF 2	, -NTS
DRAWN	_\\\	CHECKED A	MFG. APPR.	APPROVED MAP	DE APPR.	
DATE 1	1.03.31	DATE 11/03.3/	DATE // 03.31	DATE 11/03·3)	DATE 11-03.31	

#### **PURPOSE:**

REMOVED ABRASION STRIP IN FAVOR OF A THIN LAYER OF PROSEAL 890.

#### CHANGE:

#### PARTS LIST IS AMENDED AS FOLLOWS:

#### IS:

Item	Qty -243	Part Number	Description
6	0	D2856-600-1009	ABRASION STRIP

#### WAS:

6	2	D2856-600-1009	ABRASION STRIP

#### NOTES 2 AND 14, SHEET 1 ARE AMENDED AS FOLLOWS:

#### <u> IS:</u>

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA)

PAINT OUTSIDE PER DART QSI 005 4.2

AFTER PAINTING, APPLY CLEAR COAT ON HATCHED AREA

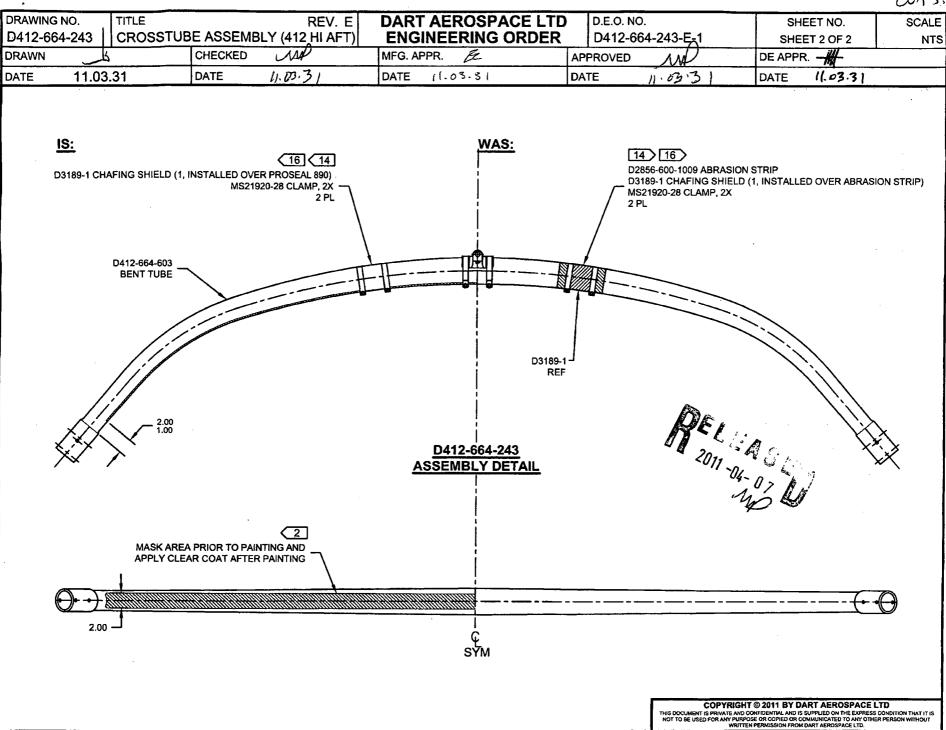
14) APPLY A THIN COAT OF PROSEAL 890 ON INSIDE CONCAVE SURFACE OF D3189-1 CHAFING SHIELD AND LET CURE PER MANUFACTURER'S INSTRUCTIONS. INSTALL PROSEALED D3189-1 CHAFING SHIELD ONTO CROSSTUBE BY APPLYING A THIN COAT OF PROSEAL 890 ONTO CROSSTUBE. BE SURE TO ELIMINATE ANY AIR GAPS.

#### WAS:

- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
  PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
  PAINT OUTSIDE PER DART QSI 005 4.2
- 14) INSTALL D2856-600-1009 ABRASION STRIPS WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.



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W/O:	·		WORK ORDER CHANGES								
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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DRAWING NO.	TITLE	REV. E	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D412-664-243	CROSSTUBE ASS'Y	(412 HI AFT)	ENGINEERING ORDER	D412-664-243-E-2	SHEET 1 OF 1	NTS
DRAWN 97	CHECKE	15	MFG. APPR	APPROVED MY	DE APPR.	
DATE 11.09	.07 DATE	11.09.19	DATE /(.09.19	DATE 11.09.19	DATE //. 99.19	

**PURPOSE:** 

REPLACE MAGNOBOND WITH 3M DP460 SCOTCH-WELD EPOXY ADHESIVE

#### **CHANGE:**

IS:

item	Qty Part Number -243		Description
0	A/P	SCOTCH-WELD DP460	EPOXY ADHESIVE, 3M SCOTCH-WELD

#### WAS:

	0	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
1				ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
1_				TYPE II, CLASS 2 ADHESIVE)

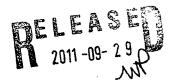
NOTE 12 & 16, SHEET 1 IS AMENDED AS FOLLOWS:

IS

- 12) INSTALL D2896-1 CENTER SUPPORT USING A 0.04" TO 0.07" THICK LAYER OF SCOTCH-WELD DP460 PER QSI 015. LET CURE FOR 24 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER ADHESIVE HAS CURED FOR 24 HOURS.

#### WAS:

- 12) INSTALL D2896-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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# LIQUID PENETRANT TEST REPORT

P- 14907

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ATTENTION	LWDA		ACUREN JOB NO.	185-13-60	ا ڪار
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PROJECT	F.P.I. on	(/	The SES		
ITEM(S) EXAMINED		(8) ce.	SS ZEEP		
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JOB DESCRIPTION	PROCEDURE No. L	T-COD REV./DATE	TECHNI	QUE NO. LT July 2 REV./DA	1E_2003
PART No.	SEE CESUL	73	MATERIAL ALLE	Accominent THICKNESS	VALCOUS
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TEST DETAILS				A CONTRACTOR OF THE CONTRACTOR	
METHOD	P FLUORESCENT	☐ VISIBLE	☑ Water Wash	☐ SOLVENT REMOVABLE	☐ Post Emulsified
FAMILY BRAND LAS	NELUX			5-7 □ OUTPUT > 1000 µ W/см²	☐ AMBIENT < 2 fc
PENETRANT REMOVER	MINIMUM DWELL TIME  MINIMUM DRY TIME			SHLIGHT TROUBLELIGHT OU	00 fc @ SURFACE
DEVELOPER SA	MINIMUM DRY TIME			200 CAL DU	E DATE
DEVELOPER TYPE	Non Aqueous Aqueous	☐ DRY		Ti Zi	1427-2012
TEST SURFACE				1	
SURFACE CONDITION  SURFACE TEMPERATURE		WELDED °C/ 20°F TO 10°C/50°			CLEAN BARE METAL
	METRIC   IMPERIAL)	*C/ 20°F 10 10°C/50°	r Di	0°С/50°F то 52°С/125°F □ >	> 52°C/125°F
that all descriptions, comments and exprepresentations or warranties. Acuren	perform services extends only to those service ressions of opinion reflect the opinions or obs	es provided for in writing. Unde ervations of Acuren Group Inc. s of the owner/operator and the	or no circumstances shall such service based on information and assumption owner/apertan retains complete res	es extend beyond the performance of the requested as supplied by the owner/operator and are not interponsibility for the engineering, manufacture, repaid the amount paid for such services.	nded nor can they be construed as
In performing the services provided, Actinplied, is made or intended by Acting SIGNATURES	Group Inc.	ll ordinarily exercised under sin	illar circumstances by others perform	ing such services in the same or similar locality.	
CLIENT REPRESENTATIVE	Andrew Sheldon		Alheller SIGNATURE	DTR# £ 6	03814
TECHNICIAN (SIGNATURE):		money v.	DIGITAL UNE	REPORT	
NAME (PRINT):	Mistos	Len		REVIEWED BY:	INITIÁLS
WAS TAKEN A MANAGEMENT AND A MANAGEMENT	CGSB LEVEL SNT LE	VEL CGSB LE			ичиндо

# Location/Lot Activity

Thursday, March 29, 2012 12:36:44 PM

Transaction Type	Item ID/ Item Name	Warehouse Location ID	Reason	Employee ID  Location Code	Loc Trans Date	LocQtyPrior/ Location Qty	Lot Number	Lot Qty	Shelf Life Date t Code	Extended Cos
Account Value Change	D2896-1 / Support	Main Warehouse LG		FAUT01	10/10/2011	20.0000		20.0000		
		Main Warehouse		FAUT01	10/19/2011	-20.0000 20.0000	71502	-20.0000 20.0000		(\$6,397.93
		LG			10/19/2011	20.0000	71502	20.0000		\$6,397.93
								0.0000		\$0.00
Inv Adjustment	D2896-1 / Support	Main Warehouse	Found	FAUT01		21.0000		0.0000		
		LG053			3/7/2012	1.0000	71502	1.0000		\$319.90
		Main Warehouse	Found	FAUT01		21.0000		0.0000		
		LG053			3/7/2012	1.0000	71502	0000.1		\$319.90
		Main Warehouse LG053	B/N correction	GOLD01	2/22/2012	21.0000	<b>51500</b>	0.0000		
			DAI :	201.001	3/23/2012	1.0000 21.0000	71502	1.0000 0.0000		\$319.90
		Main Warehouse LG053	B/N correction	GOLD01	3/27/2012	1.0000	71502	1.0000		#210.00
		LG033			3/2//2012	1.0000	71302	1.0000	erri arrorr	\$319.90
								4.0000		\$1,279.59
ssue	D2896-1 / Support	Main Warehouse	73691	QUIR01		20.0000		20.0000		
		LG			10/19/2011	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse LG	73690	QUIR01	10/10/2011	19.0000	71.502	19.0000		(0.10.00)
		Main Warehouse	75417	QUIR01	10/19/2011	-1.0000 18.0000	/1502	-1.0000 18.0000		(\$319.90)
		LG			11/9/2011	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	75416	QUIR01		17.0000		17.0000		
		LG			11/9/2011	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	74376	FAUT01		16.0000		16.0000		
		LG			11/21/2011	-1.0000	71502	-1.0000		(\$319.90)

Fransaction Fype	Item ID/ Item Name	Warehouse	Reason	Employee ID	Loc Trans	LocQtyPrior/	Lot Number		Shelf Life Date	Extended
- J pc		Location ID		Location Code	Trans Date	Location Qty		Lot Qty Lo	t Code	Cost
Issue	D2896-1 / Support	Main Warehouse	74377 -30	<b>)</b> FAUT01		15.0000		15.0000		
		LG		•	11/21/2011	-1.0000	71502	-1.0000		(\$319.90
		Main Warehouse	76351 <b>- 20</b>	DESJ02	10// 0011	35.0000		14.0000		
		LG053	~ <i>ر</i> ر	<sup>7</sup> 7)	12/6/2011	-1.0000	71502	-1.0000		(\$319.90
		Main Warehouse	76350 <b>~ 2</b> 0	DESJ02		34.0000		13.0000		
		LG053	Λ:	\mathcal{N}	12/6/2011	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	77108	DESJ02		33.0000		12.0000		
		LG053	20	<u> </u>	12/9/2011	-1.0000	71502	-1.0000		(\$319.90)
	1/0/2	Main Warehouse	77273 ~2	LAVO01		32.0000		11.0000		
•		LG053	۷,	, c, ~,	12/9/2011	-1.0000	71502	-1.0000		(\$319.90)
for or		Main Warehouse	77109	DESJ02		31.0000		10.0000		
0 10		LG053			12/13/2011	-1.0000	71502	-1.0000		(\$319.90)
V/2,		Main Warehouse	77433	QUIR01		30.0000		9.0000		
, or	(1)	LG053			12/19/2011	-1.0000	71502	-1.0000		(\$319.90)
	1101	Main Warehouse	77434	QUIR01		29.0000		8.0000		
	1101	LG053			12/20/2011	-1.0000	71502	-1.0000		(\$319.90)
	11/ 5	Main Warehouse	77748	FAUT01		28.0000		7.0000		
	, , <b>/9</b> /	LG053			1/6/2012	-1.0000	71502	-1.0000		(\$319.90)
	Maria	Main Warehouse	77533	FAUT01		27.0000		6.0000		
	, ,	LG053			1/6/2012	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	77534	FAUT01		26.0000		5.0000		
		LG053			1/6/2012	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	78576	FAUT01		25.0000		4.0000		
		LG053			2/22/2012	-1.0000	71502	-1.0000		(\$319.90)
		Main	78574	FAUT01		24.0000		3.0000		
		Warehouse LG053			2/22/2012	-1.0000		-1.0000		(\$319.90)

j <b>e</b>	-	1					
		€.					

Transaction Type	Item ID/ Item Name	Warehouse	Reason	Employee 1D	Loc Trans		Lot Numbe	r LotQtyPrior/ Lot Qty	Shelf Life Date	Extended Cost
- J P	rom mune	Location ID		Location Code	Date	Location Qty		Lot	Code	Cost
Issue	D2896-1 / Support	Main Warehouse	78575	FAUT01	2/22/2012	23.0000		2.0000		
		LG053			2/22/2012	-1.0000	71502	-1.0000		(\$319.90
		Main Warehouse	78573	GOLD01	2/2 / / 2 / 2	22.0000		1.0000		
		LG053			2/24/2012	-1.0000	71502	-1.0000		(\$319.90
		Main Warehouse	80135	FAUT01		22.0000		1.0000		
		LG053			3/7/2012	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	80134	FAUT01		22.0000		1.0000		
		LG053			3/7/2012	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	80585	GOLD01		22.0000		1.0000		
		LG053			3/23/2012	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	80584	GOLD01		22.0000		0000.1		
		LG053			3/27/2012	-1.0000	71502	-1.0000		(\$319.90)
								-24.0000		(\$7,677.51)
Loc Transfer	D2896-1 / Support	Main Warehouse		GOLD01		0.0000		0.0000		
		LG053			11/30/2011	14.0000	71502	14.0000		\$4,478.55
		Main Warehouse		GOLD01		14.0000		14.0000		
		LG			11/30/2011	-14.0000	71502	-14.0000	<u></u>	(\$4,478.55)
								0.0000		\$0.00
WIP Receipt	D2896-1 / Support	Main Warehouse	71502	GOLD01		0.0000		0.0000		
		LG			10/3/2011	20.0000	71502	20.0000		\$6,397.93
								20.0000		\$6,397.93